



09-07-04

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## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : 09/346,470  
Applicant: : Hill et al.  
Filed: : July 1, 1999

Confirmation No.: 2471

Group Art Unit : 1646  
Examiner: : Murphy, Joseph F.  
For: Genetic Sequences Encoding  
Steroid and Juvenile Hormone  
Receptor Polypeptides and  
Insecticidal Modalities Therefor

|  |                                 |
|--|---------------------------------|
| CERTIFICATE OF MAILING   |                                 |
| I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as Express Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 EV 437 337 242 US |                                 |
| On <u>9/2/04</u>   | <u>Lea Murray</u><br>Lea Murray |

Docket No. : 53-99  
Customer No. : 23713

## SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Office of Petitions  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

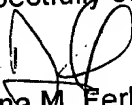
Sir:

Further to the Third Supplemental Information Disclosure Statement filed July 17, 2003, the Examiner is respectfully requested to consider the additional references, copies enclosed, which may qualify as prior art. For the Examiner's Convenience, the references are listed on the attached Patent and Trademark Office Form PTO-1449.

This information is cited in a spirit of forthrightness and cooperation to enable the applicants to obtain that measure of protection for the invention to which there is entitlement. However, no representation is made that the listed art actually qualifies as prior art under the patent statute and the mere use of PTO-1449 is not an admission that all listed references are prior art. No representation is made that applicants know of the best art.

It is believed this submission does not require the payment of a fee under 37 C.F.R. 1.16-1.17 in view of the statement under 37 C.F.R. 1.97(c)(1). If this is incorrect, please deduct the appropriate fee from deposit account no. 07-1969.

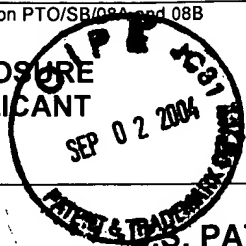
Respectfully submitted,



Donna M. Ferber  
Reg. No. 33,878

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Telephone: (303) 499-8080; Facsimile: (303) 499-8089  
Attorney Docket No. 53-99  
lem: September 2, 2004

|   |                        |              |
|---|------------------------|--------------|
| Substitute for form 1449/PTO, based on PTO/SB/08A and 08B<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b> | Application Number     | 09/346,470   |
|   | Filing Date            | July 1, 1999 |
|   | First Named Inventor   | Hill         |
|   | Art Unit               | 1646         |
|   | Examiner Name          | J. Murphy    |
|   | Attorney Docket Number | 53-99        |



## U.S. PATENT DOCUMENTS

| Examiner Initial* | Cite No. <sup>1</sup> | Document Number (US-) | Publication Date (MM-DD-YYYY) | Name | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise) |
|-------------------|-----------------------|-----------------------|-------------------------------|------|---|
|                   |                       |                       |                               |      |   |
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## FOREIGN PATENT DOCUMENTS

| Examiner Initial* | Cite No. <sup>1</sup> | Foreign Patent Document Number (include WIPO country code) | Publication Date (MM-DD-YYYY) | Name | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear (or entire document unless noted otherwise) | T <sup>2</sup> |
|-------------------|-----------------------|--|-------------------------------|------|---|----------------|
|                   |                       |  |                               |      |   |                |
|                   |                       |  |                               |      |   |                |

## NON-PATENT LITERATURE DOCUMENTS

| REFERENCE         |                       |   |  | T <sup>2</sup> |
|-------------------|-----------------------|---|--|----------------|
| Examiner Initial* | Cite No. <sup>1</sup> | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. |  |                |
|                   |                       | Halling, B.P. et al. (July 1999), "Expression and Purification of the Hormone Binding Domain of the <i>Drosophila</i> Ecdysone and Ultraspiracle Receptors," Protein Expression Purification 17:373-386   |  |                |
|                   |                       | Hannan, G.N. and Hill, R.J. (June 2001), " <i>Lcusp</i> , an <i>ultraspiracle</i> gene from the sheep blowfly, <i>Lucilia cuprina</i> : cDNA cloning, developmental expression of RNA and confirmation of function," Insect Biochem. Mol. Biol. 31:771-781      |  |                |
|                   |                       | Kapitskaya, M. et al. (1996), "The mosquito <i>ultraspiracle</i> homologue, a partner of ecdysteroid receptor heterodimer: cloning and characterization of isoforms expressed during vitellogenesis," Mol. Cell. Endocrinol. 121:119-132                        |  |                |
|                   |                       | Li, C. et al. (March 1997), "Coexpression of nuclear receptor partners increases their solubility and biological activities," Proc. Natl. Acad. Sci. USA 94:2278-2283   |  |                |
|                   |                       | Palli, S.R. et al. (Feb. 1999), "Biochemical and biological mode of action of ecdysone agonists on the spruce budworm," Pestic. Sci. 55:633-675   |  |                |
|                   |                       | Perera, S.C. et al. (pub. on-line May1999), "An Analysis of Ecdysone Receptor Domains Required for Heterodimerization With Ultraspiracle," Arch. Insect Biochem. Physiol. 41:61-70  |  |                |
|                   |                       | Tzertzinis, G. et al. (1994), "BmCF1, a Bombyx mori RXR-type Receptor Related to the <i>Drosophila</i> ultraspiracle," J. Mol. Biol. 238:479-486  |  |                |
|                   |                       | Yao, T-P. et al. (Oct. 1992), " <i>Drosophila</i> ultraspiracle Modulates Ecdysone Receptor Function via Heterodimer Formation," Cell 71:63-72  |  |                |

|                    |  |                 |  |
|--------------------|--|-----------------|--|
| Examiner Signature |  | Date Considered |  |
|--------------------|--|-----------------|--|

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional).

<sup>2</sup>Applicant is to place a check mark here or "x" if English language Translation is attached.



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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| On <u>9/2/04</u>  | <u>L Murray</u><br>Lea Murray |

TRANSMITTAL OF SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

Office of Petitions  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-145

Sir:

Pursuant to the Petition to Withdraw from Issue and Request for Continued Examination filed by facsimile on September 2, 2004, enclosed herewith is the Supplemental Information Disclosure Statement, Form 1449 and eight references.

It is believe that no fee is due with this transmittal. If this is incorrect, please deduct the appropriate fee from deposit account 07-1969.

Respectfully submitted,

Donna M. Ferber  
Reg. No. 33,878

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Attorney Docket No. 53-99  
lem:September 2, 2004